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(54) TITLE: CELL CULTURE CHAMBER FOR A CELL CULTURE SYSTEM

(57) **Abstract:** A cell culture chamber (20) for a closed cell culture system serving to continuously supply different cells with liquid nutrient media, growth factors, gases or the like essentially consists of a membrane plate (1) with a membrane (2) for accommodating at least one cell culture and with a number of channels (4, 4', 4'', 4''') for supplying liquid, gassing and connecting sensors, of a transparent glass pane (3), which is placed on one side of the membrane plate (1) while provided for observing the inside of the cell culture chamber (20) from this side, and consists of a connecting plate (5), which is placed on the opposite side of the membrane plate (1) and which is provided with an incorporated, transparent glass pane (6) for illuminating the inside of the cell culture chamber (20) from this opposite side with the aid of an assigned lighting system.